· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)
Notice of Allowability	10/534,385	WOERLEE ET AL.
	Examiner	Art Unit
	Monica D. Harrison	2813
The MAILING DATE of this communication apperatus and the second secon	(OR REMAINS) CLOSED in this or other appropriate communic IGHTS. This application is subjusted and MPEP 1308.	the correspondence address is application. If not included eation will be mailed in due course. THIS
1. X This communication is responsive to applicant's remarks fi	<u>iled 11/6/06</u> .	
2. X The allowed claim(s) is/are <u>1-15</u> .		
Acknowledgment is made of a claim for foreign priority una All b) □ Some* c) □ None of the: Certified copies of the priority documents have □ Certified copies of the priority documents have □ Copies of the certified copies of the priority documents have	e been received. e been received in Application N	ło
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give	MENT of this application. nitted. Note the attached EXAMI	NER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	·
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1)		
each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the DGICAL MATERIAL.
		•
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Inform	mal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	• •
3. ☐ Information Disclosure Statements (PTO/SB/08),		il Date
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta	

Application/Control Number: 10/534,385

Art Unit: 2813

DETAILED ACTION

1. Applicant's arguments filed 11/6/06 have been entered.

Allowable Subject Matter

2. Claims 1-15 are allowed over the prior art of record.

Reasons For Allowance

3. The following is an examiner's statement of reasons for allowance: The prior art does not disclose nor fairly suggest a radiation emitting semiconductor device and the method of manufacturing a radiation emitting semiconductor device as described in independent claims 1 and 8.

The band gap of the further portion in the radiation emitting semiconductor device is increased with respect to the central portion in that the thickness of said further portion is so small that quantum effects occur therein, whereas the thickness of the central portion is so large that said effects are substantially absent, yet small enough for a high efficiency. The thickness of the semiconductor body at the location of the further portion to be formed is reduced by means of a local oxidation of the semiconductor body. As a result of said process a properly passivated surface of silicon is obtained, so that non-radiant recombination of charge carriers at said surface is precluded or at least limited. Also, a silicon region having a thickness such that quantum effects occur can be obtained in a very simple and accurate manner. If a silicon layer is oxidized to such an extent that the resultant silicon area reaches such a thickness, the (further) rate of oxidation is comparatively low. This contributes to the accuracy and reproducibility of the process carried out to obtain such a particularly thin silicon layer.

Application/Control Number: 10/534,385

Art Unit: 2813

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica D. Harrison whose telephone number is 571-272-1959. The examiner can normally be reached on M-F 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Monica D. Harrison AU 2813

mdh February 1, 2007